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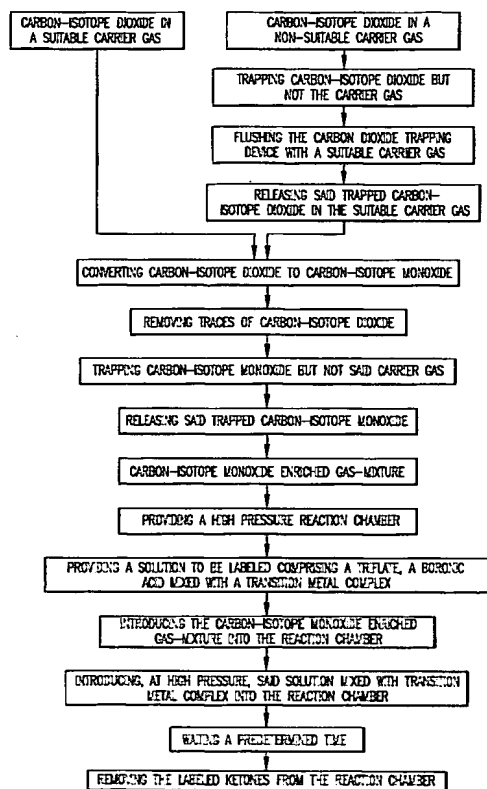
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(54) Title: METHODS FOR CARBON ISOTOPE LABELING SYNTHESIS OF KETONES AND AMINES BY SUZUKI COU-
PLING REACTIONS USING CARBON-ISOTOPE MONOXIDE



(57) Abstract: Methods and reagents for synthesizing carbon-isotope labeled ketones and amines by carbonylation via Suzuki coupling reaction using carbon-isotope labeled carbon monoxide are provided. The resultant carbon-isotope labeled ketones and amines are useful as radiopharmaceuticals, especially for use in Positron Emission Tomography (PET). Associated kits for PET studies are also provided.



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